

### In the Claims

Please amend the claims as follows:

1. (Currently Amended) An isolated mutant mammalian or avian cell comprising decreased levels of *N*-acetylneuraminic acid and/or decreased levels of *N*-glycolylneuraminic acid ~~terminal sialic acid-containing host cell receptors for influenza virus~~ relative to a corresponding wild-type cell which wild-type cell supports efficient influenza virus replication, wherein the mutant cell is selected for resistance to growth inhibition by a lectin which binds terminal sialic acid containing residues in sialic acid-containing host cell receptors, ~~and wherein the mutant cell has decreased levels of *N*-acetylneuraminic acid and/or decreased levels of *N*-glycolylneuraminic acid relative to the corresponding wild-type cell.~~
2. (Canceled)
3. (Previously Presented) The isolated mutant cell of claim 1 which is a swine, bovine, simian or canine cell.
4. (Previously Presented) The isolated mutant cell of claim 1 wherein the wild-type cell is a Madin-Darby canine kidney (MDCK) cell.
5. (Previously Presented) The isolated mutant cell of claim 1 which is a mink cell.
6. (Original) The isolated mutant cell of claim 5 which is a mink lung cell.
7. (Canceled)
8. (Original) The isolated mutant cell of claim 1 which has decreased levels of *N*-acetylneuraminic acid.

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9. (Original) The isolated mutant cell of claim 1 which has decreased levels of *N*-glycolylneuraminic acid.
10. (Original) The isolated mutant cell of claim 1 which has decreased levels of *N*-acetylneuraminic acid and *N*-glycolylneuraminic acid.
11. (Original) The isolated mutant cell of claim 1 which has at least ten fold lower levels of *N*-acetylneuraminic acid and at least 2 fold lower levels of *N*-glycolylneuraminic acid relative to the corresponding wild-type cell.
12. (Withdrawn) A method to isolate a cell that has decreased levels of receptors for influenza virus, comprising:
- a) contacting a population of cells permissive for influenza virus replication and sensitive to lectin growth inhibition with an amount of lectin so as to yield cells that are resistant to growth inhibition by the lectin, wherein the lectin specifically binds terminal sialic acid containing residues in sialic acid containing cell receptors; and
  - b) isolating a lectin-resistant cell having decreased levels of receptors for influenza virus.
13. (Withdrawn) The method of claim 12 wherein the lectin is *Maackia amurensis* lectin.
14. (Withdrawn) The method of claim 12 wherein the lectin is *Sambucus nigra* lectin.
15. (Canceled)
16. (Withdrawn) The method of claim 12 wherein the lectin is *Trichomonas mobilensis* lectin.
17. (Withdrawn) The method of claim 12 wherein the lectin specifically binds sialic acid linked to galactose by  $\alpha(2-3)$  or  $\alpha(2-6)$  linkages.

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18. (Withdrawn) The method of claim 12 wherein the lectin specifically bind sialic acid linked to *N*-acetylgalactosamine by  $\alpha(2-6)$  linkages.
19. (Withdrawn) The method of claim 12 wherein the cells are mammalian cells.
20. (Withdrawn) The method of claim 19 where the cells are canine, swine, bovine, mink, human or simian cells.
21. (Withdrawn) The method of claim 12 wherein the population of cells is a population of MDCK cells.
22. (Withdrawn) A resistant cell isolated by the method of claim 12.
23. (Withdrawn) The cell of claim 22 which is resistant to growth inhibition by *Maakia amurensis* lectin or *Sambucus nigra* lectin.
24. (Withdrawn) The cell of claim 22 which is resistant to growth inhibition by *Maakia amurensis* lectin and *Sambucus nigra* lectin.
25. (Withdrawn) A method of propagating influenza viruses having reduced sialidase activity, comprising: contacting the mutant cell of claim 1 or the resistant cell of claim 22 with an amount of an influenza virus having reduced sialidase activity so as to yield progeny virus.
26. (Withdrawn) Progeny virus obtained by the method of claim 25.
27. (Withdrawn) A method of using a host cell having decreased levels of sialic acid containing host cell receptors for influenza virus, comprising:
- a) contacting the isolated mutant cell of claim 1 or the resistant cell of claim 22 with an amount of an influenza virus having substantially wild-type levels of sialidase activity so as to yield progeny virus; and

b) serially propagating the progeny virus with the mutant cell of claim 1 or the resistant cell of claim 22 so as to yield adapted viruses which efficiently replicate in the mutant cell, the lectin-resistant cell or the agglutinin-resistant cell.

28. (Withdrawn) The method of claim 27 further comprising isolating the adapted virus.
29. (Withdrawn) Isolated adapted virus obtained by the method of claim 27 which adapted virus does not have a mutation in the HA gene relative to the virus having substantially wild-type levels of sialidase activity.
30. (Withdrawn) The method of claim 25 or 27 wherein the influenza virus is type A influenza virus.
31. (Withdrawn) The method of claim 25 or 27 wherein the influenza virus is type B influenza virus.
32. (Previously Presented) The isolated mutant cell of claim 1 which is resistant to *Maackia amurensis* lectin and *Sambucus nigra* lectin.
33. (Previously Presented) The isolated mutant cell of claim 1 in which influenza virus with reduced sialidase activity efficiently replicates.
34. (Previously Presented) The isolated mutant cell of claim 1 wherein the lectin specifically binds sialic acid linked to galactose by  $\alpha(2-3)$  or  $\alpha(2-6)$  linkages.
35. (Previously Presented) The isolated mutant cell of claim 1 wherein the lectin specifically binds sialic acid linked to *N*-acetylgalactosamine by  $\alpha(2-6)$  linkages.
36. (Previously Presented) An isolated mutant mammalian or avian cell comprising decreased levels of terminal sialic acid-containing host cell receptors for influenza virus relative

to a corresponding wild-type cell which wild-type cell supports efficient influenza virus replication, wherein the mutant cell is resistant to growth inhibition by *Maackia amurensis* lectin and/or *Sambucus nigra* lectin.